

## ABSTRACT

To enable automatic calculation of a circuit element value and a waveform by a computer. In a circuit design support for calculating a circuit element value of an analog electronic circuit to be designed, by causing a computer to execute

5 a program having a description of a repetition calculation equation of the Newton method including the Jacobi matrix, a program of the aforementioned calculation equation in which a partial differentiation as an element in the Jacobi matrix is replaced by an approximation equation is used. Furthermore, the element to be subjected to the partial differentiation in the Jacobi matrix is obtained from the

10 waveform observed in response to the circuit configuration of the analog electronic circuit.